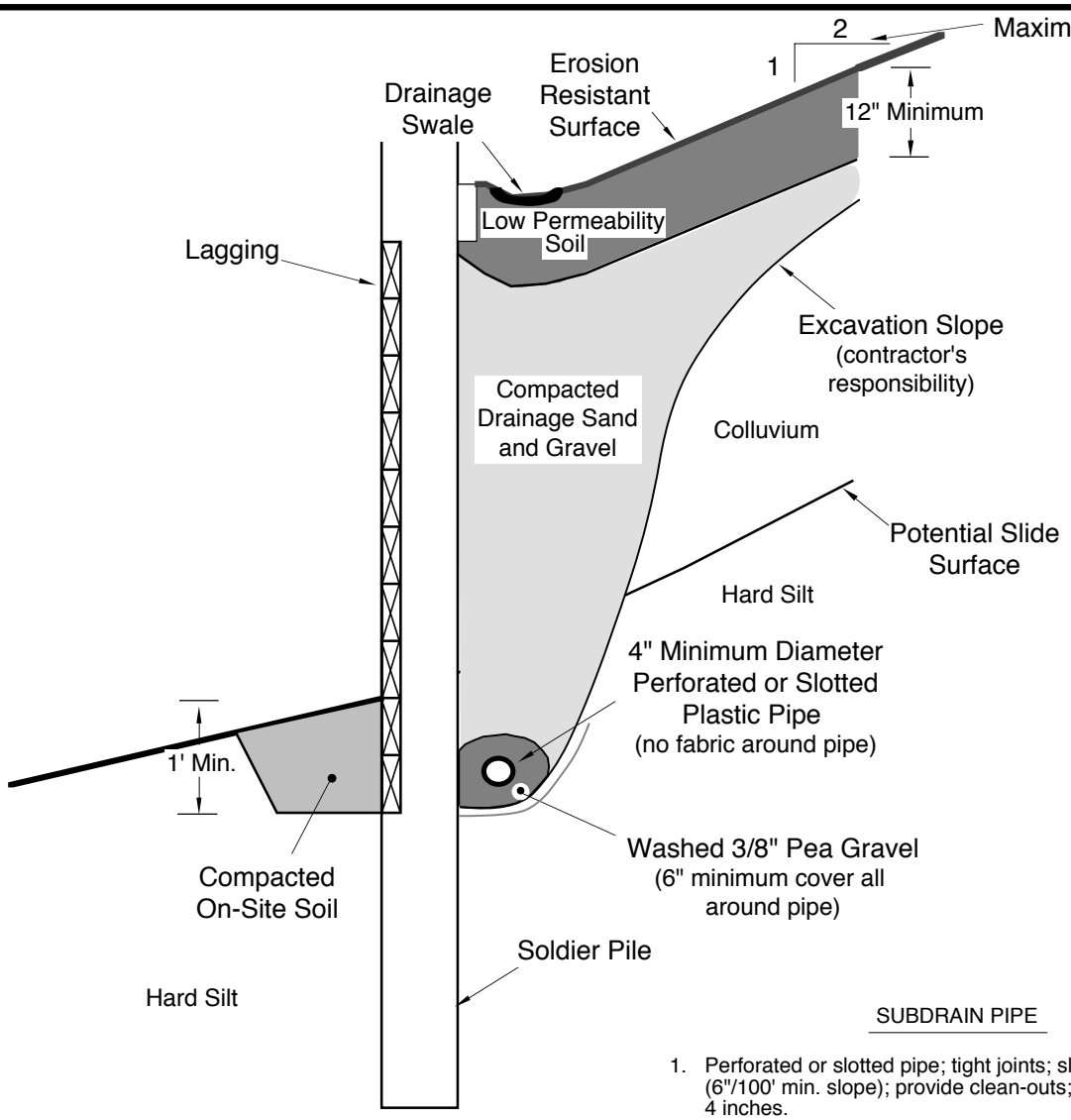

NOT TO SCALE

SUBDRAIN PIPE

1. Perforated or slotted pipe; tight joints; sloped to drain (6"/100' min. slope); provide clean-outs; min. diameter: 4 inches.
2. Perforated pipe holes (1/8-in. to 3/8-in. dia.) to be in lower half of pipe with lower quarter segment unperforated for water flow.
3. Slotted pipe to have 1/8-in. max. width slots.

NOTES

1. This figure is not for construction. It should only be used for information pertaining to potential design concepts. Final design should be based on site-specific conditions and accomplished by a geotechnical engineer licensed as a professional engineer.
2. Compact drainage sand and gravel behind wall to at least 92% of Modified Proctor maximum dry density (ASTM: D1557); where settlement is to be minimized compact to at least 95% of Modified.

MATERIALS

1. Drainage Sand and Gravel should meet the following gradation (Modified City of Seattle Mineral Aggregate Type 26):

Sieve Size	% Passing by Weight
1-inch	100
3/4-inch	85 to 95
1/4-inch	30 to 60
No. 8	20 to 50
No. 50	3 to 12
No. 200	0 to 1
(by wet sieving)	(non-plastic fines)

An alternative to drainage sand and gravel is a 50-50 mixture of washed pea gravel and washed concrete sand.

2. Washed 3/8" Pea Gravel to Meet City of Seattle Mineral Aggregate Type 9.

Seattle Landslide Study
Seattle Public Utilities
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TYPICAL SOLDIER PILE WALL BACKFILL AND DRAINAGE

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Geotechnical and Environmental Consultants

FIG. 2-12
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